

SOME NOTABLE BEETLES (COLEOPTERA) IN CUMBRIA

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CUMBRIA COMPRISES two Watsonian vice-counties: VC70, the old county of Cumberland, and VC69, Westmorland and North Lancashire. The Coleoptera of Cumberland itself were listed by F.H. Day, of Carlisle, in several papers and many shorter notes published in various periodicals between 1897 and 1957. Many species, particularly Staphylinids and Ptiliids, were contributed by Day's chief collaborator, H. Britten, of Great Salkeld, in 1902-1910. By 1957 the total for Cumberland thus stood at 1859, preponderantly from the east of the county. Since then, another hundred species have been added, by W.F. Davidson of Penrith, R.W.J. Read of Whitehaven (especially weevils and chrysomelids), D.T. Bilton of Carlisle (especially water-beetles), and others, mostly visitors.

Beetles in Westmorland (and N. Lancs.) have been much less formally listed, and reported in widely scattered notes. My friend, Dr Keith Alexander, has in recent years added considerably to these records, and I am glad to incorporate some of his unpublished data, indicated thus: (K.N.A.). At least fifty species are still known from VC69 only and not VC70.

Since moving from Gloucestershire to this north-western corner of the Lake District six years ago, I have seen some 1060 species in the county; about 150 are notable, *sensu lato*, and some 40 were new county records. (An indication of the multifarious habitats of Cumbria rather than a hyperactive retirement; but complacency would be unjustified, for many reputedly common species have not been encountered yet, even in this comparatively unspoiled area.) Some of the more interesting are listed below. However, I have excluded some nationally scarce species which have been quite often recorded in Cumbria, and, conversely, included others which are seldom seen up here at least. All are from VC70, Cumberland, unless marked otherwise by (69) after the locality. A few records from earlier holidays in the area are also incorporated.

An asterisk (*) before the name denotes a first record for VC70. All records are of single specimens unless stated otherwise. The locality "Beckhouse" means the cottage garden with its surrounding gill-woodland, on the 500 foot contour, at grid reference NY165289; "near Beckhouse" species are from woodland higher up the beck, around NY166287. All heights are in feet above sea level.

Carabidae

Carabus nitens L. Carrying a piece of worm in heather at 2200'. Sail (NY201206), 5.vi.1981.

Calosoma inquisitor (L.) Under oaks, Johnny's Wood (NY2514), 4.vi.70.

Notiophilus aestuans (Mots.) Five in bilberry and heather, 1000-2500', Whiteside to Hobcarton Pike, (NY1621 – 1822), 21.vii.90; in slate scree, 1800', Meal Fell (NY283337), 13.viii.90; in cairn at 2170', Carrock Fell (NY343336), 26.ix.90.

N. quadripunctatus Dej. At 2000', Pillar Cove (NY1712), 27.vi.91.

Blethisa multipunctata (L.) Two in reeds by lake, Cottage Wood (NY322207), 6.vii.89; 12 on bare shore, Thirlmere (NY322133), 18.viii.94.

Miscodera arctica (Payk.) Two at 1900', Stone Arthur (69, NY348092), 29.v.70; one at 2000', High Spy (NY2316), 14.v.72.

Asaphidion curtum (Heyden.) Two on sandy river-bank, Carlisle (NY395567), 16.vi.93.

A. flavipes (L.) Two in Eden tidal refuse, Demesne Marsh (NY340618), 26.viii.93; one in Wampool refuse, Whitrigg (NY228577), 19.vii.94.

Bembidion bipunctatum (L.) Two under pebbles by Derwent Water, The Isthmus (NY261227), 2.vi.81; in flood refuse, Strandshag Bay (NY267222), 11.xi.91.

**B. clarki* Daws. In reed-marsh, Loweswater (NY119219), 1.viii.90, 8.iv.91.

B. iricolor Bed. In marram, Allonby (NY080434), 7.vii.89. Previously 1976 only.

B. lunatum (Duft.) Seven, Whitrigg, 16.vii.90 and 19.vii.94; Demesne Marsh, 26.viii.93.

B. monticola Sturm. Beckhouse and elsewhere in NY12, NY13 and NY22.

B. normannum Dej. Two on sandy river-bank, Whitrigg, 16.vii.90.

B. pallidipenne (Ill.) Six on damp sand, Sandscale Haws (69, SD1974), 21.v.92.

**B. quadrimaculatum* (L.) One in old wall at 1300', Widow Hause (NY182269), 15.v.89. Surprisingly, no previous records for VC70 or 69.

B. saxatile Gyll. On sandy shore, Great Bay (NY259189), 17.vii.91.

Pterostichus aethiops (Panz.) On fells in NY11, 12, 13, 21, 22, 32, usually at 1800 to 2800', but lower in woods in winter, at 925' or 400'.

P. oblongopunctatus (F.) Beckhouse, 16.vii.91; in birch log, Johnny's Wood, 9.x.91. Previously once in VC70, in 1957, but six times in VC69.

Agonum ericeti (Panz.) On sphagnum hummock, Glasson Moss (NY240603), 8.vii.90.

**A. thoreyi* Dej. In sallow carr, Keswick (NY260228), 17.ix.80.(K.N.A.).

Amara lucida (Duft.) In marram, Grune Point (NY143569), 26.ix.89.

A. consularis (Duft.) By grazed area, Drigg dunes (SD049982), 26.ix.93.

**Acupalpus dubius* Schil. Three, Little Bampton Moss (NY275567), 26.x.89.

Dytiscidae

Hydroporus ferrugineus Steph. Three in beckhead puddle at 1600', Knott Rigg (NY202193), 22.iv.91.

H. longulus Muls. In trickling flush, Wythop Moss (NY175278), 19.iv.90 and 11.viii.91.

H. obsoletus Aubé. In beckhead pool at 1750', Rosthwaite Cam (NY257120), 24.viii.92.

Stictonectes lepidus (Ol.) Three in rockpool by Smithymire Island (NY273130), 9.ix.90.

Agabus biguttatus (Ol.) Four in rockpool by Smithymire Island, 9.ix.90.

A. unguicularis Th. Two in sphagnum swamp, Wythop Moss (NY176275), 18.vii.93.

Ilybius aenescens Th. In peat pool at 2050', Standing Crag (NY297132), 22.viii.94.

Acilius canaliculatus (Nic.) In peat pool, Glasson Moss (NY234600), 16.vii.90.

Gyrinidae

Gyrinus minutus F. 50+ on shallow pool at 775', above High Nook Tarn (NY124198), 4.x.89.

Hydrophilidae

Cercyon lugubris (Ol.) Two in horse-dung, near Beckhouse, 24.vii.92.

**C. marinus* Th. Under fungus on damp log near R. Eden, Stanwix (NY397568), 30.vii.93.

Enochrus ochropterus (Marsh.) In peat pool at 2050', Standing Crag, 22.viii.94.

Chaetarthria seminulum (Herbst.) Two in pool, Wythop brickpits (NY206281), 1.ix.94.

Leiodidae

Leiodes ferruginea (F.) (= *L. ovalis* (Schm.)) On grass under oaks, Johnny's Wood, 10a.m. 18.viii.92.

L. rufipennis (Payk.) Male by fungi on stump, edge of Johnny's Wood (NY249148), 9.x.91; male at plantain roots on sandy river-bank, Whitrigg, 19.vii.94.

Agathidium marginatum Stm. Two at plantroots, Eskmeals Dunes (SD0895), 12.viii.95.

Silphidae

Necrodes litoralis (L.) In shot rook, Isel Hall (NY158338), 9.vii.91.

Silpha tristis Ill. Two in dunes, Sandscale Haws, 21.v.92.

Staphylinidae

**Megarthrus affinis* Mill. In grassheap, Beckhouse, 30.vii.92.

Acidota cruentata Mann. In heather at 2250', Great Calva (NY291312), 15.iv.91.

Phyllodrepoidea crenata (Gr.) In mossy log, near Beckhouse, 24.ix.91; in oak log, Johnny's Wood, 25.ix.91; in spruce log, Dodd Wood (NY235280), 11.x.93.

Geodromicus longipes (Mann.) Three under stones at 3000', Skiddaw (NY261292), 6.viii.92.

Anthophagus alpinus (Payk.) Two in moss at 2440', High Crag (NY180141), 3.vi.81.

**Dropephylla grandiloqua* (Luze) In spruce log, Cogra Moss (NY101192), 8.i.90; also later at five other localities in NY21, 22 and 32.

Syntomium aeneum (Müll.) Two under stones at 2700', Skiddaw Little Man (NY268278), 3.vii.90; in moss at 3000', Skiddaw, 6.vii.90; on fir faggot, Darling How Plantation (NY1826), 27.viii.90.

Stenus argus Gr. In marshes in NY03, 22 and 23.

**S. fuscicornis* Er. Under *Spiraea* bush, Beckhouse, 8.viii.89.

**S. geniculatus* Gr. Under stone at 3000', Skiddaw, 6.viii.92. Apparently a montane species in Britain.

S. nigrutilus Gyll. In marshes in three localities in NY22 and 23.

**S. pallipes* Gr. In tussock by Aiken Beck (NY190263), 27.iii.91; by sweeping, Long Moss (NY518367), 26.vi.93.

Paederus fuscipes Curt. On rushes in saltings, Drigg (SD0796), 2.ix.93.

Philonthus rubripennis Steph. In pebbles by R. Eden, Carlisle, 16.vi.93.

**Gabrius splendidulus* (Gr.) In mossy logs, near Beckhouse, 24.ix.91; in oak log, Johnny's Wood, 25.ix.91.

Platydracus fulvipes (Scop.) In bracken, 600', Langstrath (NY271120), 8.vi.73.

P. pubsecens (Deg.) In *Hypnum* moss, Keskadale Oaks (NY207195), 18.ix.93.

**Staphylinus ater* Gr. Two under seaweed, Workington (NX994292), 17.vi.92; three on sandy cliffs, Saltom Bay (NX9616), 9.vii.93.

Quedius auricomus Kies. Beckhouse and elsewhere in NY12, 21 and 32.

Q. simplicifrons Fair. (= *Q. hispanicus* Bern.) Two, Grune, 26.ix.89; Drigg Point (SD071965), 2.ix.93.

- **Q. maurus* (Sahlb.) Under bark of rotten fallen oak, Hogg Park, Wythop Woods (NY208283), 13.i.92; off oak, High Wood (NY157203), 22.vi.95.
- Q. nigrocoeruleus* Fauv. Dead in sand of beach by dunes, Drigg, 2.ix.93.
- **Q. plagiatus* Mann. Two in birch log, Manesty Park (NY252193), 3.vii.91; five in sappy fallen oak branch, Keskadale Oaks, 18.ix.93; also in NY11, 22 and 31; many localities in VC69, (K.N.A.).
- Q. xanthopus* Er. In rotten birch logs at Great Bay, 10.ii.92, and Manesty Park, 12.ii.92; Ashness Woods, 1991, (K.N.A.).
- **Mycetoporus erichsonianus* Fagel. In dry moss at 2710', Gategill Fell Top (NY318273), 16.ix.92.
- **M. nigricollis* Steph. In flight, Beckhouse, 31.iii.90 and 12.vi.90; swept in Lanthwaite Wood (NY153210), 21.vi.93.
- M. rufescens* (Steph.) In *Hypnum* moss at 1250', Keskadale Oaks, 16.ix.93.
- Tachyporus formosus* Matth. In Eden tidal refuse, Demesne Marsh, 26.viii.93.
- **Cypha hanseni* (Palm) Seven? off ivy bush on churchyard wall, Embleton (NY162294), 30.viii.93.
- Oligota apicata* Er. In fresh Birch Bracket, near Beckhouse, 13.ix.89.
- **Myllaena gracilis* (Matth.) In streamside moss, Force Crag (NY192215), 27.vii.92, (K.N.A.).
- **M. minuta* (Gr.) In sphagnum, Sale Fell (NY198299), 24.x.91.
- **Leptusa norvegica* Strand. In fungi on logs: Higham (NY185316), 9.x.92 and Chapel Wood (NY198293), 14.ii.95.
- Myrmecopora sulcata* (Kies.) Four in seaweed, Siddick (NY001315), 14.ix.90.
- **M. uvida* Er. In seaweed, Siddick, 14.viii.95.
- **Tachyusa umbratica* Er. In Eden tidal refuse, Demesne Marsh, 26.viii.93.
- Gnypeta caerulea* (Sahlb.) In moss on boulder in beck, Beckhouse, 10.iv.93. (The first record of this species from a garden?)
- Callicerus obscurus* Gr. Male swept by pond near Beckhouse, 19.v.92.
- **Phloeopora corticalis* (Gr.) Under sappy bark of fallen oak branch, Keskadale Oaks, 18.ix.93.
- Oxypoda exoleta* Er. In straw heap, Wythop brickpits, 2.ix.94.
- **O. procerula* Mann. In sphagnum at 1200', on Narrow Moor (NY241175), 10.ix.92 and at Walla Crag (NY277214), 25.iv.95; in sphagnum, Wythop Moss, 11.iv.94; in ditch, Bewsgill Wood (NY164343), 22.ix.94.
- O. soror* Th. Two in heather at 2000', Carl Side (NY254275), 12.ix.89.

Pselaphidae

Bibloporus bicolor (Den.) Female under papery bark of fallen birch trunk, Scales, Buttermere (NY1616), 31.iii.93.

Geotrupidae

Geotrupes vernalis (L.) Johnny's Wood, 3.x.71; twice in 1990, in NY21 and 22.

Scarabaeidae

**Aphodius equestris* (Panz.) Three in cow-dung, Hogg Park, 12.x.91.

Elmidae

Oulimnius troglodytes (Gyll.) Two on stony lake-shore, Cottage Wood, 11.vii.89.

Byrrhidae

Byrrhus arietinus Steff. On Hobcarton Crag, Fairfield, Helvellyn, Skiddaw and other fells in NY11, 12, 22, 23 and 31.

Cantharidae

Ancistronycha abdominalis (F.) Birk Hagg Wood (69, NY365070), 26.vi.84.

Cantharis obscura L. Ten localities in NY12, 21, 22, 23 and 30.

C. thoracica (Ol.) Three off rushes, Cottage Wood, 6.vii.89, only.

Malthodes guttifer Kies. Female on oak, near Beckhouse, 24.vii.92.

M. mysticus Kies. Eight records in woods in SD57, NY12, 13 and 22.

Derodontidae

**Laricobius erichsoni* Rosenh. Off bird cherry, near Beckhouse, 5.vi.95.

Phloiophilidae

Phloiophilus edwardsi Steph. In tussock in swampy woodland, The Ings, Derwent Water (NY269221), 25.ii.92.

Trogossitidae

Thymalus limbatus (F.) Only recorded from VC69. Teneral inside Birch-bracket, Devil's Chimney (NY394177), 14.vi.92. Previously at Brunt How on 6.ix.89, Nab Scar on 12.ix.89, Glencoyne Wood on 9.vii.91, Fox How on 29.vii.91, (K.N.A.).

Nitidulidae

**Carpophilus marginellus* Mots. At rush roots by peat streamlet in Candleseaves Bog (NY277305), 6.viii.92. An extraordinary find. The species was first recorded outdoors in Britain c. 1947, and has since

occurred near haystacks and other man-made habitats, mostly in south and south-west England, up to Cheshire in 1967. (I found one on a rotten pear in my compost-bin in Cheltenham on 6.x.84.) This bog lies at 1500 feet in the wastes of Skiddaw Forest, where the only habitation is one and a half miles distant.

**Meligethes persicus* Fald. (= *pedicularius* auctt. nec Gyllenhall, 1808) Two off betony, Long Moss, 26.vi.93.

Epuraea rufomarginata (Steph.) Swept at woodedge, Wythop brickpits, 31.viii.94.

Rhizophagidae

**Rhizophagus perforatus* Er. Under bark on fallen oak bough, Low High Snab (NY225187), 3.viii.92, (K.N.A.).

**Cyanostolus aeneus* (Rich.) Ten under bark on fallen dead alders by river, Rose Castle (NY372455), 27.vii.91, (K.N.A.).

Cryptophagidae

Atomaria atra (Herbst.) In marsh, High Hows Wood (NY253160), 18.viii.92.

Coccinellidae

Scymnus nigrinus Kug. seven on young spruces, Lanthwaite Wood, 20.viii.91.

S. redtenbacheri (Muls.) Seven in tussock, Wythop Moss (NY176275), 29.xii.90.

Hyperaspis pseudopustulata Muls. Swept off reeds, 23.v.89, and in glade, 19.vi.90. in Holme Wood (NY1221); Keskadale Oaks, 30.vii.92, (K.N.A.).

Propylea quattuordecimpunctata L. Three in woodland at 800', Smardale Gill (69, NY7207), 29.vii.95. Surprisingly scarce in the North: in Cumberland only c. 1830 and in Westmorland first in 1964.

Halyzia sedecimguttata (L.) Around Beckhouse: on rowan flowers, 28.v.90; on young oak, 19.v.92; flying in garden, 19.vi.92; swept under alders and hazels, 13.viii.93. Two under oaks and on birch, Lanthwaite Wood, 22.vi.95. Also twice by Derwent Water (NY2521) in 1991, (K.N.A.).

Ciidae

**Sulcacis affinis* (Gyll.) In *Pleurotus*, near Beckhouse, 3.iv.91.

**Cis bilamellatus* Wood. In Birch-brackets: one female, Hogg Park, 26.viii.90; three males, four females, near Beckhouse, 10.x.91; one male, two females, Side Wood, Ennerdale (NY120139), 25.iii.95. These are the most northerly records in England, *teste* Dr K. Southern.

C. festivus (Panz.) Two in *Polystictus* on birch log, Beckhouse, 20.vii.89.

**C. pygmaeus* (Marsh.) On pine stump fungi, Holme Wood, 8.iv.91.

**Ennearthron cornutum* (Gyll.) Male in Birch-bracket, Scales, 25.iii.93.

Mycetophagidae

Mycetophagus atomarius (F.) Three in rotten stump, Cottage Wood, 6.vi.90.

Salpingidae

Salpingus castaneus (Panz.) Swept under pines, Buckholme (NY202329), 16.ix.89.

Melandryidae

Orchesia minor Walk. Under loose bark of dead standing beech, Setmurthy Plantation (NY159318), 24.xii.91.

O. undulata Kr. In fallen oak bough, Hogg Park, 23.viii.93; on holly flowers, near Beckhouse, 5.vi.95.

Abdera flexuosa (Payk.) On may, Friar's Crag (NY264223), 30.v.81; emerged on 9.v.94 from larva in *Inonotus radiatus* on fallen birch, 29.iii.94, in Great Wood (NY280218). Holm Crag Wood, Borrowdale, 1991, (K.N.A.).

Melandrya caraboides (L.) Females flying round log stack, Beckhouse, on 7.vi.92, 5.vi.93, 9.vi.93, 24.vi.94 and 14.vi.95.

Chrysomelidae

Donacia impressa Payk. In ditch, The Isthmus, 13.ix.95. Previously only in 1905, and in Westmorland in 1960.

**D. thalassina* Germ. In swamp, Crummock Water (NY151207), 22.vi.95.

**Chrysolina banksi* (F.) Swept, Peel Wood (NY167315), 7.vi.89; Scarness Bay (NY218301), 11.x.93.

C. fastuosa (Scop.) On hemp-nettle in NY12, 22 and 23.

C. menthastri (Suf.) Two swept in marsh, The Ings, 3.vi.80. Previously c. 1840 only.

C. varians (Schal.) Two on *Hypericum*, Cottage Wood, 26.viii.91.

Chrysomela aenea L. 56 on and under alders, High Hows Wood, 18.viii.92; also, often in numbers, in NY11, 12, 13 and 22.

Pyrrhalta viburni (Payk.) Two on holed leaves of guelder rose, Buckholme (NY195332), 5.ix.91.

Phyllobrotica quadrimaculata (L.) 28 in marsh, The Isthmus, 25.vi.92; singly at Bowness Bay, 20.vii.92, and High Hows Wood, 18.viii.92.

Luperus flavipes (L.) Off young birch, Dodd Wood (NY236275), 2.vii.91.

Phyllotreta flexuosa (Ill.) High Hows Wood, 18.viii.92; near Beckhouse, 23.ix.94.

**Aphthona melancholica* Weise. Swept at wood edges; Holme Wood, 19.vi.90, and Bowness, 27.vi.92.

**A. atrocaerulea* Steph. In woodland, Banks Point (NY2031), 20.vii.95.

Longitarsus ochroleucus (Marsh.) Inside window, Beckhouse, 15.ix.89.

Altica pusilla Duft. Six on rockrose, Latterbarrow (69, SD4382), 4.vii.93.

Cassida prasina Ill. 25 on sneezeworts, Cottage Wood, 26.viii.91; also 26.ix.94.

**C. vittata* Vill. Two off sea-plantain, near Flimby (NY0133), 16.viii.95.
Previously in VC69, only at Sandscale Haws in 1983.

Attelabidae

Rhynchites cupreus (L.) Swept, High Hows Wood, 3.vi.80.

R. longiceps Th. On sallow, Drumburgh Moss (NY2558), 2.vii.89.

Apionidae

Perapion affine (Kirby) At grassroots in dunes, Mawbray Bank (NY0847), 4.vii.89.

Apion cruentatum Walt. Off sorrel, near Beckhouse, 5.vi.93.

**Eutrichapion modestum* (Germ.) On *Lotus uliginosus*, Drumburgh Moss, 2.vii.89.

Kalcapion pallipes (Kirby) Two on dog's mercury, Buckholme, 21.viii.89.

Pseudotrichapion punctigerum (Payk.) Beckhouse and five other sites in NY12, 13 and 33.

Curculionidae

Otiorrhynchus porcatus (Herbst.) Off heather bush, near London Pride, Beckhouse, 24.vi.93.

Polydrusus chrysomela (Ol.) Three in saltmarsh, Eskmeals (SD0894), 13.vi.92.

P. flavipes (Deg.) Swept in lane, Stair (NY237210), 1.vi.80.

P. pilosus Gred. On young spruce, Setmurthy Common (NY165317), 13.v.89.

Cneorrhinus plumbeus (Marsh.) In dunes, Eskmeals, 13.vi.92.

Tropiphorus obtusus (Bons.) Swept under alders in marsh, Cottage Wood, 28.vi.94.

Sitona lineelus (Bons.) In kidney-vetch roots, Maryport Dock (NY029363), 13.vi.91; in *Lotus*, Saltom Bay, 12.vii.93.

**Hypera adspersa* (F.) Swept in heather etc., Beck Wythop (NY208282), 2.ix.94.

Anoplus roboris Suf. On holed leaves at base of alder, Cottage Wood, 26.viii.91.

Procas granulicollis Walt. Under firm bark of spruce stump, Wythop Woods (NY211284), 13.i.92.

Notaris aethiops (F.) Swept off *Lythrum*, Cottage Wood, 17.viii.93. Only two previous records, in Borrowdale (NY21), in 1907 and 1937.

Coeliodes ruber (Marsh.) Swept in hedgerow, near Beckhouse, 26. ix.92.

**Ceuthorhynchus constrictus* (Marsh.) Off garlic mustard, Beckhouse, 19.v.92.

C. punctiger Gyll. Swept near Beckhouse, 12.vi.90 and 24.vii.92; in dunes, Sandscale Haws, 21.v.92.

C. viduatus (Gyll.) Several off holed marsh woundwort, Cottage Wood, 26.viii.91, and The Isthmus, 25.vi.92 and 16.viii.93.

Phytobius comari (Herbst.) Five records for Cottage Wood, The Isthmus, Dubbs Moss.

Orobitis cyaneus (L.) Swept in ride, Setmurthy Common, 13.vii.93.

Curculio villosus F. Female swept by waterfall, Beckhouse, 27.v.88.

Scolytidae

**Hylastes cunicularius* (Er.) Dead under bark of spruce logs, Great Wood (NY273215), 6.iv.92.

Dryocoetes autographus (Ratz.) Two in spruce stump and log, Darling How Plantation, 27.iii.90.

Xyloterus lineatus (Ol.) Two dead in firm bark of (larch?) log, Low Hows Wood (NY252165), 25.ix.91.

**X. signatus* (F.) One exploring large fallen oak log, Hawse End, Derwent Water (NY249212), 13.x.85.

A few other first records for VC70 were not unexpected additions of recently recognised species and new arrivals, each taken in the Beckhouse area (and elsewhere). These include: the staphylinids *Lithocharis nigriceps* Kr.; *Autalia longicornis* Scheerp. (also in NY13 and 22); the cryptophagid *Atomaria lewisi* Reitt.; and the lathridiid *Aridius bifasciatus* (Reitt.) (also in NY13, 22 and 23).

Also a few supposedly common species surprisingly omitted from older lists: the carabid *Leistus ferrugineus* (L.) (Beckhouse, 5.vi.89); the dermestids *Anthrenus fuscus* Ol. (Drumburgh Moss and Cottage Wood); and *A. verbasci* (L.) (Beckhouse).

Finally, several rarer or Red Data Book species were observed in 1991–93, but at their established SSSIs on the coast, at Drigg, Eskmeals Dunes and Sandscale Haws. Such are: the carabids *Cicindela hybrida* L., *Harpalus neglectus* Serv., and the histerids *Hypocaccus rugiceps* (Duft.) and *Baeckmanniolus maritimus* (Steph.).